



NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
State Capitol
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1974

1. Name of Firm or Organization: United Power Association
2. Plant Location: Stanton, North Dakota
3. Permit to Operate Number: 730003
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>893,966 tons</u> (Specify Units) Delivered Cost of fuel <u>\$2.50</u> (\$/Unit Quantity)	Type _____ Quantity per year _____ (Specify Units) Delivered Cost of fuel _____ (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. _____ Min. _____ Avg. _____	6.56 8.65 7.49	
PERCENT SULFUR Max. _____ Min. _____ Avg. _____	0.81 0.52 0.63	
BTU PER UNIT Max. _____ Min. _____ Avg. _____	7,200/lb 6,300/lb 6,871/lb	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type _____		Type _____	Type _____
	Units <u>Tons</u>	Units _____		Units _____	Units _____
Jan.	70,063		July	77,240	
Feb.	76,960		Aug.	83,140	
March	81,524		Sept.	75,234	
April	23,975		Oct.	86,478	
May	85,722		Nov.	72,415	
June	82,253		Dec.	73,954	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type _____ Units _____
Maximum	140	
Average	117	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season August and December
(Specify Months of Year)

Total Hours Per Year 8,027

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	3,970	15,900
Sulfur Dioxide	2,810	11,300
Nitrogen Oxides	1,560	6,270
Other (Specify)		

Basis For Quantities Listed Above:

Particulate = 894,000 tons/yr \times 67% fly ash \times 7% ash \times 38% emission

SO₂ = 894,000 tons/yr \times 0.63% sulfur \times 2 $\frac{\text{SO}_2}{\text{S}}$

NO_x = SO₂ \times $\frac{335 \text{ ppm}}{602 \text{ ppm}}$

10. Name of Person Submitting Report (Print or Type) Dan McConnon

Title Manager, Environmental and Safety Department Phone (612) 441-3121

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Dan McConnon Date 2/21/7